

## MILITARY SPECIFICATION

CAPACITORS, FIXED, CERAMIC DIELECTRIC,  
(TEMPERATURE STABLE AND GENERAL PURPOSE), HIGH RELIABILITY,  
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-123B, dated 6 August 1990, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 27

TABLE XV, PDA last 48 hours during voltage conditioning at +125° heading: Add "1/".

TABLE XV, after table, add the following: "1/ For optional voltage conditioning, the time required for meeting the PDA shall be calculated with the T(test) PDA equation in 4.6.6.2.2."

4.6.6.2.2, delete in its entirety and substitute the following:

" 4.6.6.2.2 Optional voltage conditioning (see 3.10). The manufacturer, with approval from the qualifying activity, may perform an optional voltage conditioning test instead of the standard voltage conditioning test of 4.6.6.2.1. All conditions of 4.6.6.2.1 apply, with the exception of the voltage applied, the test time, and the time required for meeting the PDA. The accelerated condition selected for the optional voltage conditioning shall be used for the duration of the test. At no time shall a combination of standard and optional voltage conditioning be allowed on the same samples. The minimum time duration, T(test) minimum, and the time required for meeting the PDA, T(test) PDA, shall be calculated as follows:

$$T(\text{test}) \text{ minimum} = \frac{1344}{(E \text{ test}/E \text{ rated})^3}$$

$$T(\text{test}) \text{ PDA} = \frac{384}{(E \text{ test}/E \text{ rated})^3}$$

Where:  $2 \times E \text{ rated} \leq E \text{ test} \leq 4 \times E \text{ rated}$   
 T(test) minimum = Minimum test time in hours  
 T(test) PDA = Time required for meeting the PDA  
 E test = Applied voltage  
 E rated = Rated voltage of the capacitor"

PAGE 31

4.6.15, delete in its entirety and substitute:

" 4.6.15 Voltage-temperature limits (see 3.19). The temperature of each capacitor shall be varied as specified in table XVI. Capacitance measurements shall be made at the frequency and voltage specified in 4.6.7. The dc rated voltage need only be applied to the capacitor in each of steps E through G until voltage stability is reached and the capacitance measurement is made. Capacitance measurements shall be made at each step specified in table XVI and at a sufficient number of intermediate points between steps B and G to establish a true characteristic curve. Capacitance measurements at each temperature shall be taken at 5 minute intervals and shall be stopped and recorded when two successive readings indicate a capacitance change of less than one percent."

MIL-C-123B  
AMENDMENT 1

CONCLUDING MATERIAL

Custodians:  
Air Force - 19  
NASA - NA

Review activities:  
Army - ER  
Navy - EC  
Air Force - 85  
DLA - ES

Preparing activity:  
NASA - NA

Agent:  
DLA - ES  
(Project 5910-1733)